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Playa Largo (Playa Cristal)

MM 97.5 US 1 / Overseas Highway Key Largo, Florida

TRAFFIC STUDY

prepared for: **Key Largo Hospitality Land Trust**

KBP CONSULTING, INC.

June 2014 Revised February 2015

Playa Largo (Playa Cristal)

MM 97.5 US 1 / Overseas Highway

Key Largo, Florida

Traffic Study

June 2014 Revised February 2015

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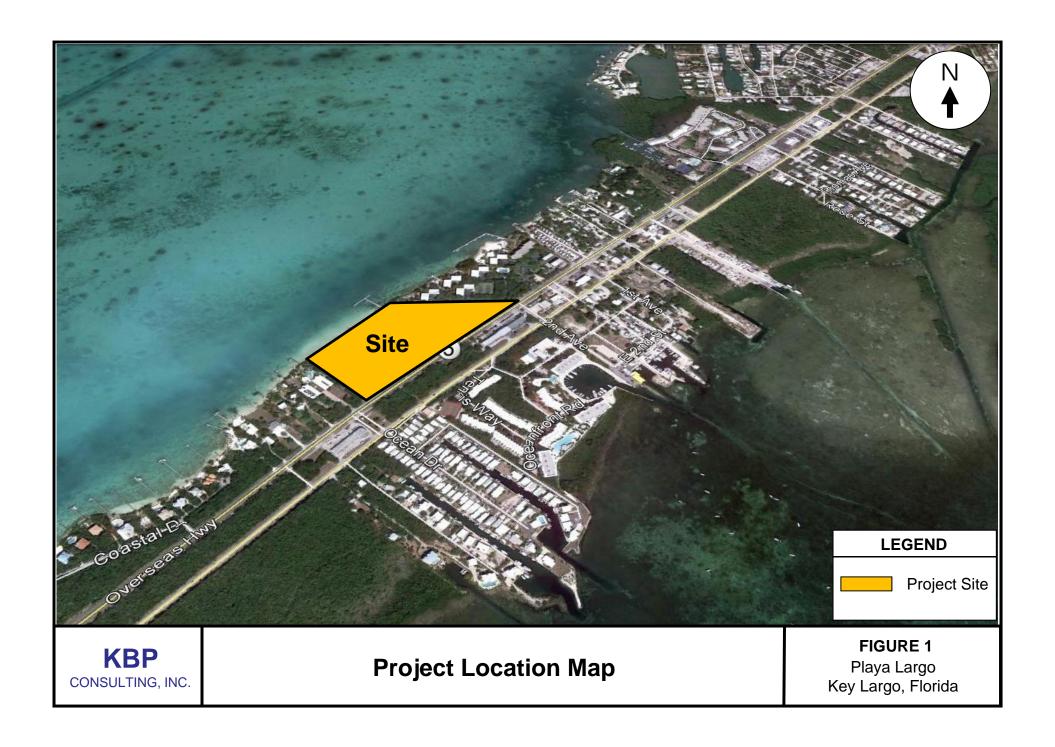
INTRODUCTION

Playa Largo (a.k.a. Playa Cristal) is a planned transient unit hotel development to be located on the bay side of US 1 / Overseas Highway between mile markers 97 and 98 in Key Largo, Monroe County, Florida. More specifically, the subject site is located on the north side of US 1 / Overseas Highway between the T-intersections of US 1 / Second Avenue and US 1 / Ocean Drive. The location of this project site is illustrated in Figure 1 on the following page.

KBP Consulting, Inc. has been retained by the Key Largo Hospitality Land Trust to prepare a traffic study in connection with this proposed development. This study addresses the vehicular traffic volumes expected to be generated by the proposed development and the projected turning movement volumes at the project access driveway on US 1 / Overseas Highway. This driveway will serve as the only public vehicular access point to the site.

This traffic study is divided into four (4) sections, as listed below:

- 1. Inventory
- 2. Trip Generation
- 3. Trip Distribution and Driveway Assignment
- 4. Summary & Conclusions



INVENTORY

Existing Land Use and Access

The project site is currently vacant. Vehicular access to the site is currently provided by a right-turn in / right-turn out only on the southbound lanes of US 1 / Overseas Highway.

Proposed Land Use and Access

The subject site will be redeveloped with a resort hotel and associated resort amenities. The total number of transient (hotel) dwelling units will be 177. There will also be a single family residence located on the property. Vehicular access to the site will be provided via a right-turn in / right-turn out only driveway on the southbound lanes of US 1 / Overseas Highway toward the southern end of the site. (There will be an additional emergency only driveway located toward the north end of the site.) Appendix A contains the preliminary site plan for the proposed project.

Roadway System

US 1 / Overseas Highway is located along the southeast side of the project site. In this area, US 1 / Overseas Highway is a four-lane divided (i.e. one-way pair) principal arterial roadway.

TRIP GENERATION

A trip generation analysis has been conducted for the proposed hotel development and the single family residence. The analysis was performed using the trip generation rates and equations published in the Institute of Transportation Engineer's ITE *Trip Generation Manual* (9th Edition). The trip generation analysis was undertaken for daily, AM peak hour, and PM peak hour conditions. According to the ITE report, the most appropriate land use categories and trip generation rates for the proposed development are as follows:

Hotel – ITE Land Use #310

□ Weekday: T = 8.95 (X) - 373.16where T = number of trips and <math>X = number of rooms

AM Peak Hour: T = 0.53 (X) (59% in / 41% out)

PM Peak Hour: T = 0.60 (X) (51% in / 49% out)

<u>Single-Family Detached Housing – ITE Land Use #210</u>

□ Weekday: T = 9.52 (X)where T = number of trips and X = number of dwelling units

 \Box AM Peak Hour: T = 0.75 (X) (25% in / 75% out)

 \Box PM Peak Hour: T = 1.00 (X) (63% in / 37% out)

Utilizing the above-listed trip generation rates and equations from the referenced ITE document, a trip generation analysis was undertaken for the proposed development. The results of this effort are documented in Table 1 on the following page.

Table 1 Trip Generation Summary Playa Largo - Key Largo, Florida								
Land Use	Size	Daily Trips	AM Peak Hour Trips In Out Total			PM Peak Hour Trips In Out Total		
Proposed Hotel	177 Rooms	1,211	55	39	94	54	52	106
Single-Family Residence	1 DU	10	0	1	1	1	0	1
TOTAL		1,221	55	40	95	55	52	107

Compiled by: KBP Consulting, Inc. (January 2015).

Source: Institute of Transportation Engineers (ITE) Trip Generation Manual (9th Edition).

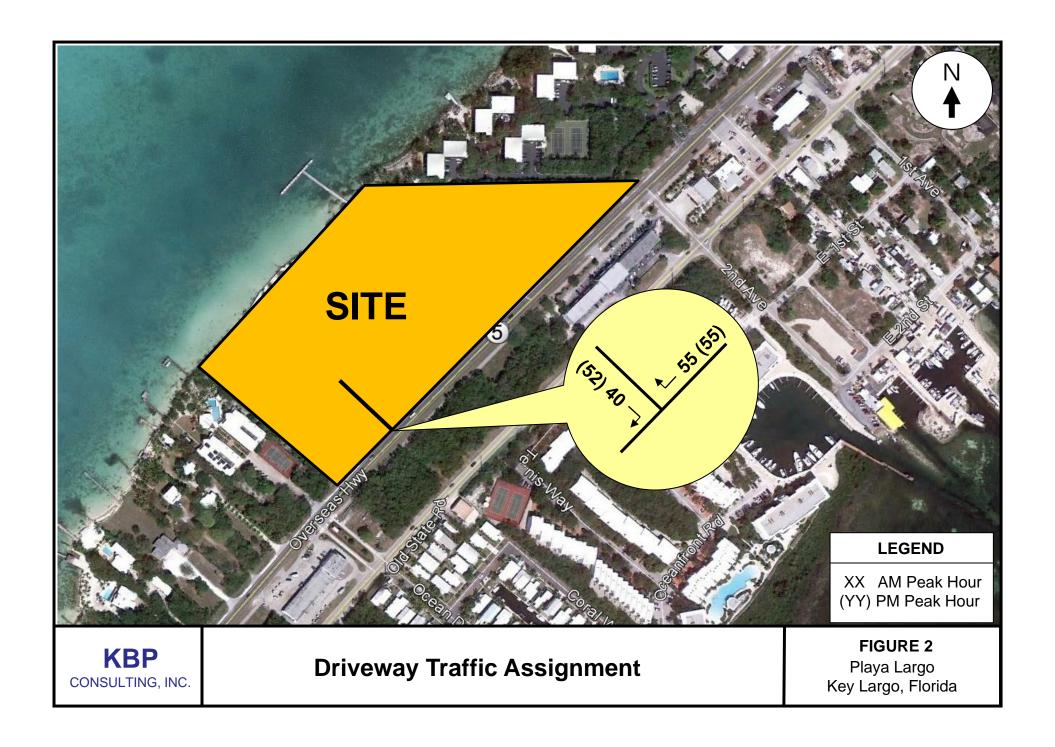
As indicated in Table 1, the proposed project is anticipated to generate 1,221 daily vehicle trips, 95 AM peak hour vehicle trips (55 inbound and 40 outbound) and 107 vehicle trips (55 inbound and 52 outbound) during the typical afternoon peak hour.

TRIP DISTRIBUTION AND DRIVEWAY ASSIGNMENT

Given the driveway location and the roadway geometry of US 1 / Overseas Highway in this area (i.e. US 1 operates as a one-way pair in this area), all project traffic will enter the site as southbound right turns and all exiting traffic will be required to turn right onto US 1 / Overseas Highway and travel in a southbound direction. Figure 2 on the following page presents the AM and PM peak hour driveway volumes for the Playa Largo project.

Based upon the projected driveway volumes anticipated during the AM and PM peak hours, a dedicated southbound right-turn lane is not required / warranted at this location on US 1 / Overseas Highway.

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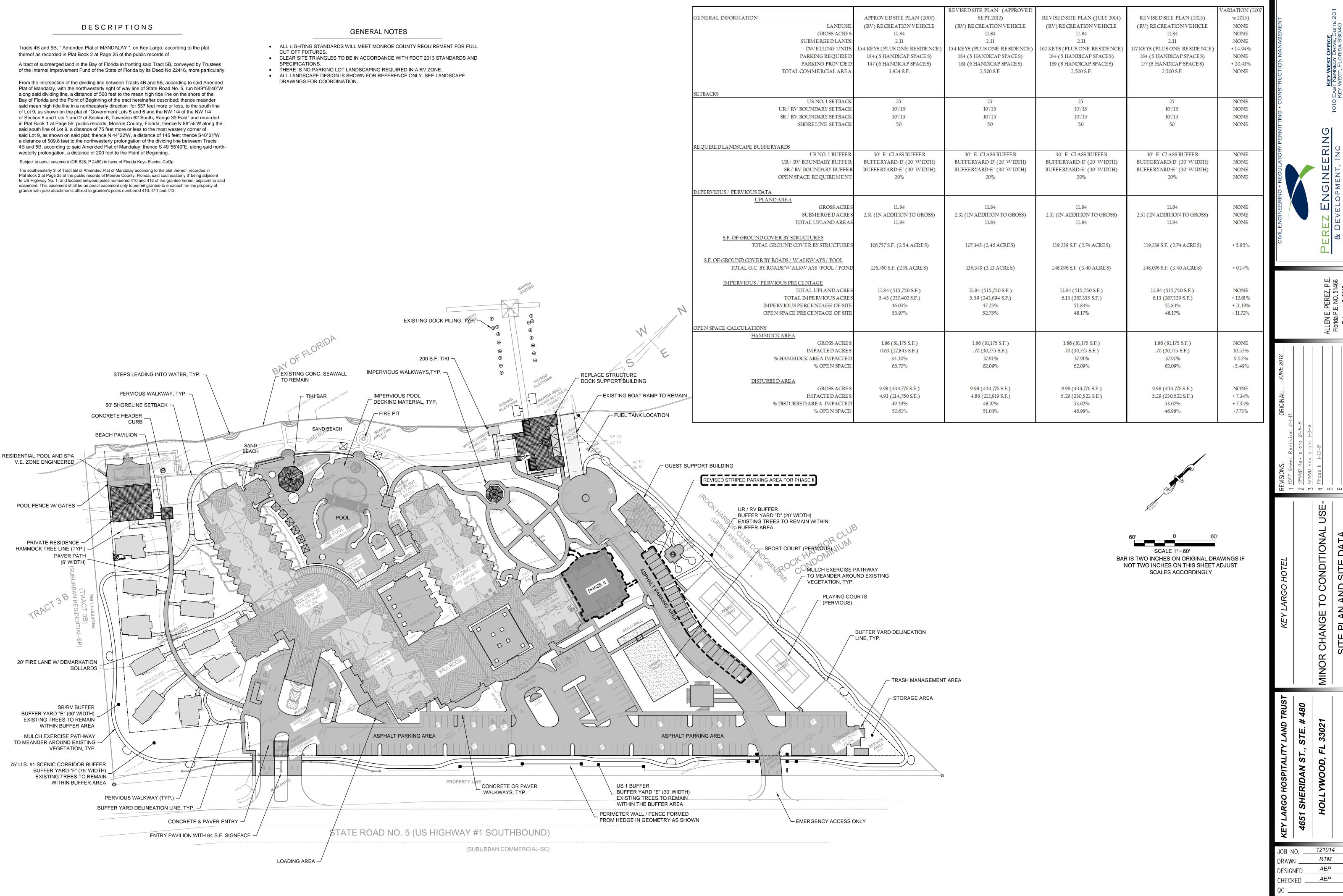
SUMMARY & CONCLUSIONS

Playa Largo (a.k.a. Playa Cristal) is a planned transient unit hotel development to be located on the bay side of US 1 / Overseas Highway between mile markers 97 and 98 in Key Largo, Monroe County, Florida. The subject site will be redeveloped with a resort hotel and associated resort amenities. The total number of transient (hotel) dwelling units will be 177. One (1) single-family residence will also be located on the property. Vehicular access to the site will be provided via a right-turn in / right-turn out only driveway on US 1 / Overseas Highway toward the southern end of the site.

The trip generation analysis indicates that the proposed project is anticipated to generate approximately 1,221 daily vehicle trips, 95 AM peak hour vehicle trips (55 inbound and 40 outbound) and 107 vehicle trips (55 inbound and 52 outbound) during the typical afternoon peak hour.

Based upon the projected driveway volumes anticipated during the AM and PM peak hours, a dedicated southbound right-turn lane is not required / warranted at this location on US 1 / Overseas Highway.

APPENDIX ASite Plan



480 STE. SHERIDAN ST., DRAWN . DESIGNED CHECKED .

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